INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

Application No. 10/543,017

Filing Date July 22, 2005

First Named Inventor Douglas Spencer Millar

Art Unit 1637

Examiner Suryaprabha Chunduru

Attorney Docket No. ALAR18.001APC

(Multiple sheets used when necessary)
SHEET 1 OF 5

U.S. PATENT DOCUMENTS Pages, Columns, Lines Where **Document Number** Cite **Publication Date** Examiner Relevant Passages or Relevant Name of Patentee or Applicant Number - Kind Code (if known) Initials No. MM-DD-YYYY Figures Appear Example: 1,234,567 B1 7SC/ 05-13-1997 Shah et al. 1 5,629,156 Collins et al. 05-12-1998 2 5,750,338 Herman et al. 3 07-28-1998 5,786,146 4 5,824,517 10-20-1998 Cleuziat et al. 09-14-1999 Nikiforov et al. 5,952,174 5 Herman et al. 6 07-24-2001 6,265,171 Laird et al. 7 12-18-2001 6,331,393 Kurn 8 02-17-2001 6,692,918 9 11-01-2005 Cottrell 6,960,436 Laird et al. 07-04-2002 10 2002/0086324 10-03-2002 Collas et al. 11 2002/0142397 04-17-2003 Mukai et al. 12 2003/0073081 Olek et al. 13 06-26-2003 2003/0119025 01-27-2005 Alexander Olek 14 2005/0019762 03-17-2005 Enoki et al. 15 2005/0059003 06-02-2005 Mineno et al. 16 2005/0118578

			FOREIGN PATE	ENT DOCUMENTS		
Examiner Initials	Cite No. Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹	
/SC/	17	EP 1 319 718	06-18-2003	Van Eijk		
-	18	EP 1 130 113	09-05-2001	Schouten		
000	19	WO 1995/01456	01-12-1995	Gryaznov et al.		
9000000	20	WO 1995/22623	08-24-1995	Landegren		
	21	WO 1997/41254	11-06-1997	Landegren		
	22	WO 1997/45559	12-04-1997	Belgrader		
200000	23	WO 1998/29108	07-09-1998	Feinberg		
\/	24	WO 1999/009211 A2	02-25-1999	Oultram et al.		
VSC/	25	WO 1999/049081 A2	09-30-1999	Mulrooney et al.		

Examiner Signature /Suryaprabha Chunduru/

Date Considered

12/03/2008

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

	Application No.	10/543,017
INFORMATION DISCLOSURE	Filing Date	July 22, 2005
STATEMENT BY APPLICANT	First Named Inventor	Douglas Spencer Millar
STATEMENT OF APPLICANT	Art Unit	1637
(Multiple sheets used when necessary)	Examiner	Suryaprabha Chunduru
SHEET 2 OF 5	Attorney Docket No.	ALAR18.001APC

			FOREIGN PATE	ENT DOCUMENTS		
Examiner Cite No.		Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	Τ1
/SC/	26	WO 1999/14226	03/25/1999	Exiqon A/S		
	27	WO 2000/44934	08-03-2000	Olek		
200000	28	WO 2000/50869 A2	08-31-2000	Arnold et al.	7	
000000	29	WO 2001/09374 A2	02-08-2001	Berlin		√ abstract
00000000	30	WO 2001/38565 A2	05-31-2001	Berlin		√ abstract
	31	WO 2001/42493 A2	06-14-2001	Olek et al.		√abstract
0000000	32	WO 2001/76451 A2	10-18-2001	Olek et al.		
99000	33	WO 2002/072880	09-19-2002	Olek et al.		√abstract
000000	34	WO 2002/097065	12-05-2002	Intercytex Limited		
	35	WO 2002/38801	05-16-2002	Grigg et al.		
	36	WO 2002/46452	06-13-2002	Olek et al.		√abstract
	37	WO 2003/008623 A2	01-30-2003	Van Ness et al.		
	38	WO 2003/048732	06-12-2003	Fan		
	39	WO 2004/015139	02-19-2004	Adjoran et al.		
	40	WO 2004/065625	08-02-2004	Millar et al.		
\/	41	WO 2004/090166	10-21-2004	Bernard et al.		
79C/	42	WO 2005/056790 A1	06-23-2005	Uemori et al.		abstrac

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹		
/SC/	43	Clark et al., "High sensitivity mapping of methylated cytosines." Nucleic Acids Research, 22(15): 2990-2997 (1994)			
/SC/	44	Clark, et al., "Bisulphite genomic sequencing of methylated cytosines." Laboratory Methods for the Detection of Mutations and Polymorphisms in DNA. Graham R. Taylor, Ed. CRC Press, New York (1997), pp.151-162			
/SC/	45	NCBI Database Accession Number M24485			
/SC/	46	Dean et al., "Comprehensive human genome amplification using multiple displacement amplification." PNAS, 99(8): 5261-5266 (2002)			
/SC/	47	Eads et al., "MethylLight: a high-throughput assay to measure DNA methylation." Nucleic Acids Research, 28(8)e32: i-viii (2000)			

Examiner Signature	/Suryaprabha Chunduru/	Date Considered	12/03/2008

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

	Application No.	10/543,017
INFORMATION DISCLOSURE	Filing Date	July 22, 2005
STATEMENT BY APPLICANT	First Named Inventor	Douglas Spencer Millar
STATEMENT BY APPLICANT	Art Unit	1637
(Multiple sheets used when necessary)	Examiner	Suryaprabha Chunduru
SHEET 3 OF 5	Attorney Docket No.	ALARI8.001APC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
/SC/	48	Feil, et al., " Methylation analysis on individual chromoshomes: improved protocol for bisulphite genomic sequencing." (1994) Nucleic Acids Research 22(4): 695-696	
/SC/	49	Frommer et al., " A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands," Proc. Natl. Acad. Sci. 89: 1827-1831 (1992)	
/SC/	50	Grigoriev et al., "A Triple Helix-forming Oligonucleotide-Intercalator Conjugate Acts as a Transcriptional Repressor via Inhibition of NFkB Binding to Interleukin-2 Receptor α-Regulatory Sequence."Journal of Biological Chemistry, 267 (5): 3389-3395 (1992)	
/SC/	51	Grunau, et al., " Bisulfite genomic sequencing: systematic investigation of critical experimental parameters." Nucleic Acid Research, (2001) Vol. 29, No 13e65, pp.1-7	
/SC/	52	Hakelien et al., "Reprogramming fibroblasts to express T-cell functions using cell extracts." Nature Briotechnology, 20(5): 460-466 (2002)	<u>-</u>
/SC/	53	Hakelien et al., "Novel approaches to transdifferentiation", Cloning and Stem Cells, 4: 379-387 (2002)	
/SC/	54	Herman, et al., "Methylation-specific PCR-: a novel PCR assay for methylation status of CpG islands." (1996) Proc. Natl. Acad. Sci. 93:9821-9826	
/SC/	55	Hosono et al. "Unbiased Whole-Genome Amplification Directly from Clinical Samples." Genome Research; 13:954-964 (2003).	
/SC/	56	International Human Genome Sequencing Consrtium, "Initial sequencing and analysis of the human genome," Nature, 409(6822): 860-921 (2001)	
/SC/	57	International Preliminary Report on Patentability issued on the corresponding PCT Application No. PCT/AU2006/000698, dated April 20, 2007	
/SC/	58	International Search Report Issued on the corresponding PCT Application No. PCT/AU2006/000698, dated August 1, 2006	
/SC/	59		
/SC/	60	Kono, "Nuclear transfer and reprogramming." Reviews of Reproduction, Vol. 2 No. 2, pp. 74-80 (May 1997)	
/SC/	61	Millar et al., "A distinct sequence (ATAAA) n separates methylated and unmethylated domains at the 5'-end of the GSTP1 CpG island," J. Biol. Chem., 275(32): 24893-24899 (2000)	
/SC/	62	A STATE OF THE STA	
/SC/	63	Genetics, Vol. 17, pp. 188-197 (1995)	
/SC/	64	Newton et al., "The production of PCR products with 5' single-stranded tails using primers that	
/SC/	65	Nilsson et al., "Padlock Probes: Circularizing oligonucleotides for localized DNA Detection", Science; 265:2085-2088 (1994)	
/SC/	66	Office Action in U.S. Application No. 10/416,637 dated May 4, 2006, Our Ref. ALAR13.001APC	

Examiner Signature /Suryaprabha Chunduru/	Date Considered	12/03/2008

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

	Application No.	10/543,017
INFORMATION DISCLOSURE	Filing Date	July 22, 2005
STATEMENT BY APPLICANT	First Named Inventor	Douglas Spencer Millar
STATEMENT BY APPLICANT	Art Unit	1637
(Multiple sheets used when necessary)	Examiner	Suryaprabha Chunduru
SHEET 4 OF 5	Attorney Docket No.	ALAR18.001APC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials			T ¹
/SC/	67	Office Action in U.S. Application No. 10/428,310 dated August 31, 2006, Our Ref. ALAR 12.001AUS	
000000000	68	Office Action in U.S. Application No. 10/428,310 dated January 4, 2006, Our Ref. ALAR12.001AUS	
0000000000	69	Office Action in U.S. Application No. 10/426,310 dated July 5, 2006, Our Ref. ALAR12.001AUS	
0000000000	70	Office Action in U.S. Application No. 10/428,310 dated November 3, 2006, Our Ref. ALAR12.001AUS	
000000000	71	Office Action in U.S. Application No. 10/536,633 dated April 4, 2007, Our Ref. ALAR16.001APC	
000000000000000000000000000000000000000	72	Office Action in U.S. Application No. 10/536,633 dated January 25, 2007, Our Ref. ALAR16.001APC	
***************************************	79	Okada, et al., " Sequence Determination of Rat U5 RNA Unsing a Chemical Modification Procedure for Counteracting Sequence Compression." (1982) J. Biochem. 91: 1281-1291	
	74	Olek, et al. " A modified and improved method for bisulphite based cytosine methylation analysis." (1996) Nucleic Acids Research, 24(24): 5064-5066	
	75	genomic DNA." Nucleic Acid Research, 26(21): 5009-5010 (November 1, 1998)	
000000000000000000000000000000000000000	76	Pietrobono et al., "Quantitative analysis of DNA demethylation and transcriptional reactivation of the FMR1 gene in fragile X cells treated with 5-azadeoxycytidine." Nucleic Acids Research, 30(14): 3278-3285 (2002)	
30000000000	77	Raizis et al., "A Bisulfite Method of 5-Methylcytosine mapping that minimizes template degradation", Anal. Biochem., 226: 161-166 (1995)	
	78	Rein et al., "Identifying 5-methylcytosine and related modifications in DNA genomes." Nucleic Acids Research, 26 (10): 2255-2264 (May 15,1998)	
00000000000	79	Robertson et al., Blood 90: 4480-4484 (1997)	
	80	Sakaguchi et al. "Cautionary Note on the Use of dUMP-Containing PCR Primers with <i>Pfu</i> and Vent _R ® DNA Polymerases." <i>Biotechniques</i> ; 21(3):368 & 370 (1996).	
00000000000	81	Sakashita et al., "Dynamic DNA Methylation change in the CpG island region of p15 during human myeloid development", J. Clin. Invest., 108: 1195-1204 (2001)	
0000000000	82	Shapiro et al., "Deamination of cytosine derivatives by bisulfite. Mechanism of the reaction," J. Am. Chem. Soc., 96: 906-912 (1974)	
000000000000000000000000000000000000000	83	Specification and Preliminary Amendment from co-pending U.S. Application No. 10/555,465, filed August 28, 2006	
***************************************	84	Tada et al., "Embryonic germ cells induce epigenetic reprogramming of somatic nucleus in hybrid cells." The EMBO Journal, 16(21): 6510-6520 (1997)	
/36/	85	Telenius et al. "Degenerate Oligonucleotide-Primed PCR: General Amplification of Target DNA by a Single Degenerate Primer." Genomics; 13(3):718-725 (1992).	

		T	
Examiner Signature	/Suryaprabha Chunduru/	Date Considered	12/03/2008

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T¹ - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

	Application No.	10/543,017
INFORMATION DISCLOSURE	Filing Date	July 22, 2005
STATEMENT BY APPLICANT	First Named Inventor	Douglas Spencer Millar
STATEMENT BY AFFLICANT	Art Unit	1637
(Multiple sheets used when necessary)	Examiner	Suryaprabha Chunduru
SHEET 5 OF 5	Attorney Docket No.	ALAR18.001APC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
/SC/	86	Tohgi et al., "Decrease with age in methylcytosines in the promoter region of receptor for advanced glycated end products (RAGE) gene in autopsy human cortex", Molecular Brain Research," 65:124-128 (1999)	
/SC/	87	Venter et al., "The sequence of the human genome," Science, 292 (5523): 1304-1351(2001)	
/SC/	88	Warnecke et al., "Detection and measurement of PCR bias in quantitative methylation analysis of bisulphite-treated DNA," Nucleic Acids Research, Vol. 25 No. 21, pp.4422-4426, (1997)	
/SC/	89	Xiong et al., "COBRA: a sensititive and quantitative DNA methylation assay." (1997) Nucleic Acids Research, 25 (12): 2532-2534	

5482692 060608/cmb

Examiner Signature /Suryaprabha Chunduru/ Date Considered 12/03/2008

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.